AMENDMENTS TO THE CLAIMS

1. (cancelled)

2. (currently amended): An isolated host cell comprising

(a) ~~the recombinant polyketide synthase gene of Claim 1,~~ a recombinant polyketide synthase gene that encodes a loading module comprising an inactivated beta-ketoacylsynthase (KS^Q) domain, an acyl transferase (AT) domain specific for ethylmalonyl CoA, and an acyl carrier protein (ACP) domain, and

(b) a recombinant gene selected from the group consisting of ~~recombinant crotonyl CoA reductase (*ccr*),~~ a *ccr* from *Streptomyces coelicolor,* a *ccr* from *Streptomyces cinnamonensis*, a *ccr* from *Streptomyces collinus,* a *ccr* from *Streptomyces fradiae*, and ~~recombinant isobutyryl CoA mutase (*icm*),~~ an *icm* from *Streptomyces cinnamonensis*, **[[**and**]]** or a combination thereof.

3-6. (cancelled)

7. (currently amended): The host cell of claim 2, wherein the recombinant polyketide synthase gene ~~of claim 1, which~~ further comprises two or more extender modules, wherein at least one extender module has an AT domain specific for malonyl CoA.

8. (currently amended): The host cell of claim 2, wherein the recombinant polyketide synthase gene ~~of claim 7, which~~ further comprises five or six extender modules, wherein at least one extender module has an AT domain specific for malonyl CoA.

9. (currently amended): The host cell of claim 2, wherein the recombinant polyketide synthase gene ~~of claim 7,~~ further ~~comprising~~ comprises six extender modules specific for methylmalonyl CoA.

10-16. (cancelled)

17. (previously presented): The host cell of claim 2, which is a *Saccharopolyspora* host cell.

18. (previously presented): The host cell of claim 2, which is a *Streptomyces* host cell.

19. (previously presented): The host cell of claim 2, which is an *E. coli* host cell.